

Datasheet for ABIN7554959

PLCz1 Protein (AA 1-608) (His tag)



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Overview

Quantity:	1 mg
Target:	PLCz1
Protein Characteristics:	AA 1-608
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLCz1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat PLCZ1 Protein expressed in mammalian cells.
Sequence:	<p>MEMRWFLSKI QDDFRGGKIN LEKTQRLLEK LDIRCSYIHV KQIFKDNDRL KQGRITIEEF</p> <p>RAIYRIITHR EEIIEIFNTY SENRKILLAS NLAQFLTQEQ YAAEMSKAIA FEIIQKYEPI EEVRKAHQMS</p> <p>LEGFTRYMDS RECLLFKNEC RKVYQDMTHP LNDYFISSSH NTYLVSDQLL GPSDLWGYVS</p> <p>ALVKGCRCLC IDCWDGAQNE PVVYHGYTLT SKLLFKTVIQ AIHKYAFMTS DYPVVLSEN</p> <p>HCSTAAQEVN ADNLQATFGE SLLSDMLDDF PDTLPSPEAL KFKILVKNKK IGTLKETHER</p> <p>KGSDKRGDNQ DKETGVKKLP GVMLFKKKKT RKLKIALALS DLVIYTKAEK FKSFQHSRLY</p> <p>QQFNENNSIG ETQARKLSKL RVHEFIFHTR KFITRIYPKA TRADSSNFPN QEFWNIGCQM</p> <p>VALNFQTPGL PMDLQNGKFL DNGGSGYILK PHFLRESKSY FNPSNIKEGM PITLTIRLIS</p> <p>GIQLPLTHSS SNKGDSLVI EVFGVPNDQM KQQTRVIKKN AFSPRWNETF TFIHVPELA</p> <p>LIRFVVEGQG LIAGNEFLGQ YTLPLLCMNK GYRRIPLFSR MGESLEPASL FVYVWYVR Sequence</p> <p>without tag. The proposed Purification-Tag is based on experiences with the expression</p>

system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	PLCz1
Alternative Name:	PLCZ1 (PLCz1 Products)
Background:	<p>1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase zeta-1 (EC 3.1.4.11) (Phosphoinositide phospholipase C-zeta-1) (Phospholipase C-zeta-1) (PLC-zeta-1) (Testis-development protein NYD-SP27),FUNCTION: The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. In vitro, hydrolyzes PtdIns(4,5)P2 in a Ca(2+)-dependent manner. Triggers intracellular Ca(2+) oscillations in oocytes solely during M phase and is involved in inducing oocyte activation and initiating embryonic development up to the blastocyst stage. Is therefore a strong candidate for the egg-activating soluble sperm factor that is transferred from the sperm into the egg cytoplasm following gamete membrane fusion. May exert an inhibitory effect on phospholipase-C-coupled processes that depend on calcium ions and protein kinase C, including CFTR trafficking and function.</p>

Target Details

{ECO:0000250|UniProtKB:Q8K4D7, ECO:0000269|PubMed:12416999, ECO:0000269|PubMed:14697805, ECO:0000269|PubMed:15579586, ECO:0000269|PubMed:26721930, ECO:0000305}.

Molecular Weight: 70.4 kDa

UniProt: [Q86YW0](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months